M 5.5, 42 km N of Kabansk, Russia

Origin Time: 2020-12-09 21:44:33 UTC (Thu 05:44:33 local)
Location: 52.4251° N 106.6975° E Depth: 10.0 km
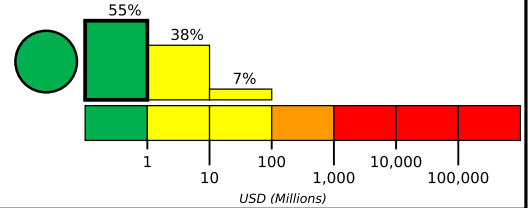
PAGER
Version 1

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

65%
30%
4%

1 10 100 1,000 10,000 100,000
Fatalities

Estimated Economic Losses

55%
38%
7%

1 10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	957k*	759k	12k	2k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000
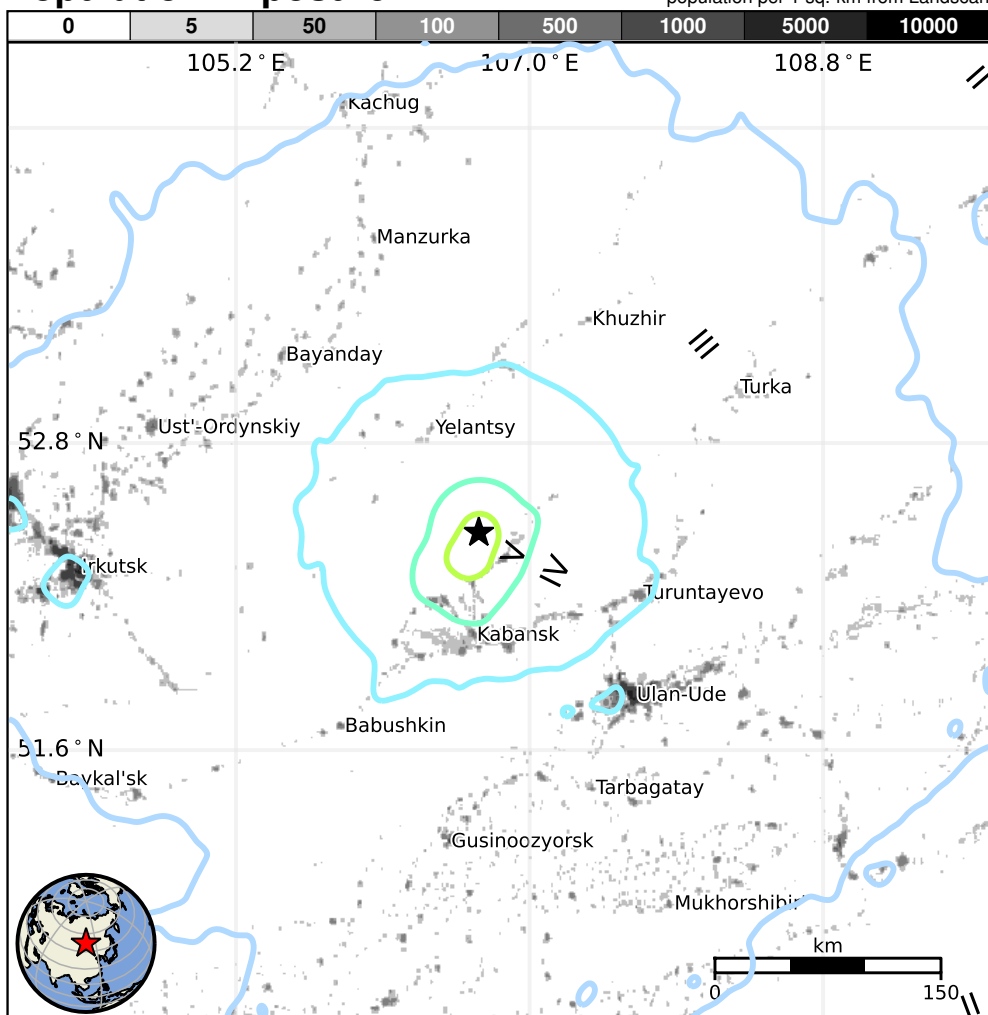
Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and unreinforced brick with mud construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2000-05-17	364	4.5	V(2k)	–
1999-02-25	148	5.9	VI(7k)	–
1989-05-13	267	5.6	VII(2k)	–

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Kabansk**	**6k**
IV	Il'inka	4k
IV	**Yelantsy**	**4k**
IV	Istok	3k
IV	Markova	18k
IV	Smolenshchina	2k
IV	**Irkutsk**	**587k**
IV	Shelekhov	47k
III	**Ulan-Ude**	**360k**
III	**Gusinoozyorsk**	**24k**
III	Petrovsk-Zabaykal'skiy	20k

bold cities appear on map.   (k = x1000)

Event ID: us7000cpkf